

# 2018 Current Fiscal Year Report: Visiting Committee on Advanced Technology

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## 1. Department or Agency

Department of Commerce

## 2. Fiscal Year

2018

## 3. Committee or Subcommittee

Visiting Committee on Advanced Technology

## 3b. GSA Committee No.

377

## 4. Is this New During Fiscal Year?

No

## 5. Current Charter

01/14/2016

## 6. Expected Renewal Date

01/12/2020

## 7. Expected Term Date

## 8a. Was Terminated During Fiscal Year?

No

## 8b. Specific Termination Authority

## 8c. Actual Term Date

## 9. Agency Recommendation for Next Fiscal Year

Continue

## 10a. Legislation Req to Terminate?

No

## 10b. Legislation Pending?

Not Applicable

## 11. Establishment Authority Statutory (Congress Created)

## 12. Specific Establishment Authority

15 U.S.C. 278

## 13. Effective Date

01/01/1988

## 14. Committee Type

Continuing

## 14c. Presidential?

No

## 15. Description of Committee Scientific Technical Program Advisory Board

## 16a. Total Number of Reports

1

## 16b. Report Date

04/09/2018

## Report Title

2017 Annual Report

## Number of Committee Reports Listed: 1

17a. Open 2 17b. Closed 0 17c. Partially Closed 1 Other Activities 0 17d. Total 3

## Meetings and Dates

### Purpose

To review and make recommendations regarding general policy for NIST, its organization, its budget, and its programs within the framework of applicable national policies as set forth by the President and the Congress. The agenda will include an update on major programs at NIST. In addition, the meeting will include presentations and discussions on priorities for the NIST Laboratory Programs over the next decade. The Committee will also be briefed on plans to improve research services and support. During a closed session on October 24, 2017 from 8:30 a.m. until 10:30 a.m., the VCAT will discuss NIST's security posture, including recent incidents and planned improvements.

### Start

### End

10/23/2017 - 10/24/2017

To review and make recommendations regarding general policy for NIST, its organization, its budget, and its programs within the framework of applicable national policies as set forth by the President and the Congress. The agenda will include an update on major programs at NIST. In addition, the meeting will include presentations and discussions on NIST's role in cybersecurity and technology transfer from federal laboratories. The Committee also will present its initial observations, findings, and recommendations for the 2017 VCAT Annual Report.

02/07/2018 - 02/07/2018

To review and make recommendations regarding general policy for NIST, its organization, its budget, and its programs within the framework of applicable national policies as set forth by the President and the Congress. The agenda will include an update on major programs at NIST. In addition, the meeting will include presentations and discussions on NIST's role in quantum science, and artificial intelligence. The Committee also will review NIST's facilities plans and progress on ongoing renovation efforts.

06/05/2018 - 06/06/2018

#### **Number of Committee Meetings Listed: 3**

|   | <b>Current FY</b> | <b>Next FY</b> |
|---|-------------------|----------------|
| <b>18a(1). Personnel Pmts to Non-Federal Members</b>                  | \$0.00            | \$0.00         |
| <b>18a(2). Personnel Pmts to Federal Members</b>                      | \$0.00            | \$0.00         |
| <b>18a(3). Personnel Pmts to Federal Staff</b>                        | \$127,789.00      | \$134,458.00   |
| <b>18a(4). Personnel Pmts to Non-Member Consultants</b>               | \$0.00            | \$0.00         |
| <b>18b(1). Travel and Per Diem to Non-Federal Members</b>             | \$26,275.00       | \$39,942.00    |
| <b>18b(2). Travel and Per Diem to Federal Members</b>                 | \$0.00            | \$0.00         |
| <b>18b(3). Travel and Per Diem to Federal Staff</b>                   | \$7,789.00        | \$0.00         |
| <b>18b(4). Travel and Per Diem to Non-member Consultants</b>          | \$0.00            | \$6,000.00     |
| <b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b> | \$7,638.00        | \$8,000.00     |
| <b>18d. Total</b>   | \$169,491.00      | \$188,400.00   |
| <b>19. Federal Staff Support Years (FTE)</b>                          | 1.10              | 1.10           |

#### **20a. How does the Committee accomplish its purpose?**

The members of the Visiting Committee on Advanced Technology (VCAT) continue to meet all of their chartered responsibilities, including reviewing and making recommendations regarding general policy for NIST, its organization, its budget, and its programs, within the framework of applicable national policies as set forth by the President and the Congress. To carry out these responsibilities, the Committee reviews a significant portion of NIST programs through informational briefings and direct discussion with NIST leaders, scientists, and engineers and provides candid reactions and observations. The Committee functions solely as an advisory board, in accordance with the provisions of the Federal Advisory Committee Act.

#### **20b. How does the Committee balance its membership?**

In accordance with the provisions of the 1988 Omnibus Trade and Competitiveness Act, the members of the Committee are selected from industry and academia solely on the basis of distinguished records of service in research, engineering, and other fields that are relevant to NIST's mission and in accordance with applicable Department of Commerce guidance. The members have diverse backgrounds and provide a representative cross-section of traditional and emerging United States industries. Diversity of both demographic and geographic are considered in the appointment of the members.

#### **20c. How frequent and relevant are the Committee Meetings?**

The Committee meets at least three times a year with the NIST senior management. At

each meeting, the Committee reviews and advises NIST on its strategic direction. On occasion, outside speakers renowned in their field provide their views on selected topics of interest to the Committee. The Committee also engages with the researchers who occasionally provide laboratory tours and presentations on relevant topics as a way to better understand the Institute's programs and their relationship to the NIST mission.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

The advice and oversight provided by the Committee requires an intimate familiarity with NIST's mission, technical programs, organization, and budget process. This, in turn, requires considerable background analysis, frequent communication, and a close relationship with NIST. The Committee provides the necessary continuity and structure in the advisory relationship.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

The October 2017 meeting was partially closed to the public to discuss sensitive security postures, including recent incidents and planned improvements about NIST. Public discussions of the pre-decisional plans would prematurely disclose information likely to significantly frustrate the implementation of proposed agency actions. The Committee's chartered rule is to provide advise and direction for program plans and strategies, and before they are implemented, an open and frank discussion of options is necessary.

**21. Remarks**

Cost for FY18 were less than estimated due to change in staffing/labor costs. The cost of the subcommittee is included in the budget for the parent committee.

**Designated Federal Officer**

Stephanie L. Shaw DFO

| Committee Members | Start      | End        | Occupation  | Member Designation                       |
|-------------------|------------|------------|---|--|
| Adler, Allen      | 01/25/2016 | 01/24/2019 | Director, Sensors and Electronics Laboratory, HRL Laboratories            | Special Government Employee (SGE) Member |
| Alexander, Jay    | 05/22/2018 | 05/21/2021 | Senior Vice President and Chief Technology Officer, Keysight Technologies | Special Government Employee (SGE) Member |
| Brooks, Rodney    | 06/01/2014 | 05/31/2020 | Chairman and CTO Rethink Robotics, Inc.                                   | Special Government Employee (SGE) Member |

|                        |            |            |  |  |
|------------------------|------------|------------|--|--|
| Colwell, Rita          | 01/06/2014 | 01/05/2020 | Distinguished University Professor, University of Maryland, College Park and John Hopkins University Bloomberg School of Public Health, Senior Advisor and Chairman Emeritus, Canon U.S. Life Sciences | Special Government Employee (SGE) Member |
| Fischer, George        | 05/22/2018 | 05/21/2021 | Senior Vice President and Group President, Verizon Enterprise Solutions, Verizon   | Special Government Employee (SGE) Member |
| Folena-Wasserman, Gail | 01/30/2017 | 01/29/2020 | Senior Vice President, Biopharmaceutical Development, MedImmune  | Special Government Employee (SGE) Member |
| Garvey, Michael        | 01/23/2015 | 01/22/2021 | President & CEO, M-7 Technologies  | Special Government Employee (SGE) Member |
| Holt, William          | 05/13/2012 | 05/12/2018 | Senior Fellow Emeritus, Executive Vice President General Manager, Technology and Manufacturing Group Intel Corporation   | Special Government Employee (SGE) Member |
| Ishak, Waguhi          | 01/25/2016 | 01/24/2019 | Vice President & Chief Technologist Science & Technology, Corning Incorporated   | Special Government Employee (SGE) Member |
| Jackson, Dana "Keoki"  | 05/22/2018 | 05/21/2021 | Chief Technology Officer, Lockheed Martin  | Special Government Employee (SGE) Member |
| Ku, Katharine          | 05/22/2018 | 05/21/2021 | Executive Director, Emerita Office of Technology Licensing, Stanford University  | Special Government Employee (SGE) Member |
| Prafullchandra, Hemma  | 10/27/2014 | 10/26/2020 | Chief Technology Officer and Senior Vice President, Products, HyTrust Inc.   | Special Government Employee (SGE) Member |
| Sizer, Theodore        | 08/28/2015 | 08/27/2021 | Vice President, IP & Optical Research Leader, Nokia Bell Labs  | Special Government Employee (SGE) Member |
| Vasko, David           | 02/02/2017 | 02/01/2020 | Director Advanced Technology, Strategic Development, Rockwell Automation   | Special Government Employee (SGE) Member |

## Number of Committee Members Listed: 14

## Narrative Description

The Committee meets three times a year to examine specific areas of NIST's mission, including the role that the NIST laboratories and major programs play in stimulating innovation and competitiveness, and to provide feedback to NIST senior management. The Committee's feedback on NIST's strategic direction, performance and policies is critical to help ensure that NIST is well-positioned to stimulate technological innovation

and U.S. competitiveness well into the future and encourages continuous improvement in key areas in the overall operation of NIST. In addition, the Committee shall provide an annual report, through the Director of NIST, to the Secretary of Commerce for submission to the Congress not later than 30 days after the submittal to Congress of the President's annual budget request in each year. Such report shall deal essentially, though not necessarily exclusively, with policy issues or matters which affect NIST, or with which the Committee in its official role as the private sector policy adviser of NIST is concerned. Each report shall identify areas of program emphasis for NIST of potential importance to the long-term competitiveness of United States industry.

**What are the most significant program outcomes associated with this committee?**

Checked if Applies

- |   |                                     |
|---|-------------------------------------|
| Improvements to health or safety                  | <input checked="" type="checkbox"/> |
| Trust in government                               | <input type="checkbox"/>            |
| Major policy changes                              | <input type="checkbox"/>            |
| Advance in scientific research                    | <input checked="" type="checkbox"/> |
| Effective grant making                            | <input type="checkbox"/>            |
| Improved service delivery                         | <input checked="" type="checkbox"/> |
| Increased customer satisfaction                   | <input type="checkbox"/>            |
| Implementation of laws or regulatory requirements | <input type="checkbox"/>            |
| Other   | <input type="checkbox"/>            |

**Outcome Comments**

NA

**What are the cost savings associated with this committee?**

Checked if Applies

- |                            |                                     |
|----------------------------|-------------------------------------|
| None                       | <input type="checkbox"/>            |
| Unable to Determine        | <input checked="" type="checkbox"/> |
| Under \$100,000            | <input type="checkbox"/>            |
| \$100,000 - \$500,000      | <input type="checkbox"/>            |
| \$500,001 - \$1,000,000    | <input type="checkbox"/>            |
| \$1,000,001 - \$5,000,000  | <input type="checkbox"/>            |
| \$5,000,001 - \$10,000,000 | <input type="checkbox"/>            |
| Over \$10,000,000          | <input type="checkbox"/>            |
| Cost Savings Other         | <input type="checkbox"/>            |

**Cost Savings Comments**

NA

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

202

**Number of Recommendations Comments**

In April 2018, the Committee issued its 2017 Annual Report which included 5 specific recommendations suggesting NIST action to be taken in the following areas: Artificial Intelligence and Machine Learning; efforts to improve operational efficiency; NIST safety systems and safety culture; and the physical security at NIST. Specific recommendations based on the 2018 Committee meetings will be provided in the Annual Report due not later than 30 days after the submission of the President's FY 2020 budget request to Congress. NIST agrees with all recommendations provided and are in the process of implementing all of them.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

65%

**% of Recommendations Fully Implemented Comments**

65% of recommendations have been or will be fully implemented.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

31%

**% of Recommendations Partially Implemented Comments**

31% of recommendations have been or will be partially implemented.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

Verbal updates presented and agency feed back is provided during meetings.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Reorganized Priorities            | <input checked="" type="checkbox"/> |
| Reallocated resources             | <input type="checkbox"/>            |
| Issued new regulation             | <input type="checkbox"/>            |
| Proposed legislation              | <input checked="" type="checkbox"/> |
| Approved grants or other payments | <input type="checkbox"/>            |
| Other                             | <input type="checkbox"/>            |

### **Action Comments**

NA

### **Is the Committee engaged in the review of applications for grants?**

No

### **Grant Review Comments**

NA

### **How is access provided to the information for the Committee's documentation?**

Checked if Applies

|                           |                                     |
|---------------------------|-------------------------------------|
| Contact DFO               | <input checked="" type="checkbox"/> |
| Online Agency Web Site    | <input checked="" type="checkbox"/> |
| Online Committee Web Site | <input checked="" type="checkbox"/> |
| Online GSA FACA Web Site  | <input checked="" type="checkbox"/> |
| Publications              | <input checked="" type="checkbox"/> |
| Other                     | <input type="checkbox"/>            |

### **Access Comments**

None